

Seguimiento y Predicción Climática

CNO 757

04 | 07 | 24

Variaciones del **clima** nacional



ENOS
océano - atmósfera

MJO
Propagación
hacia el este

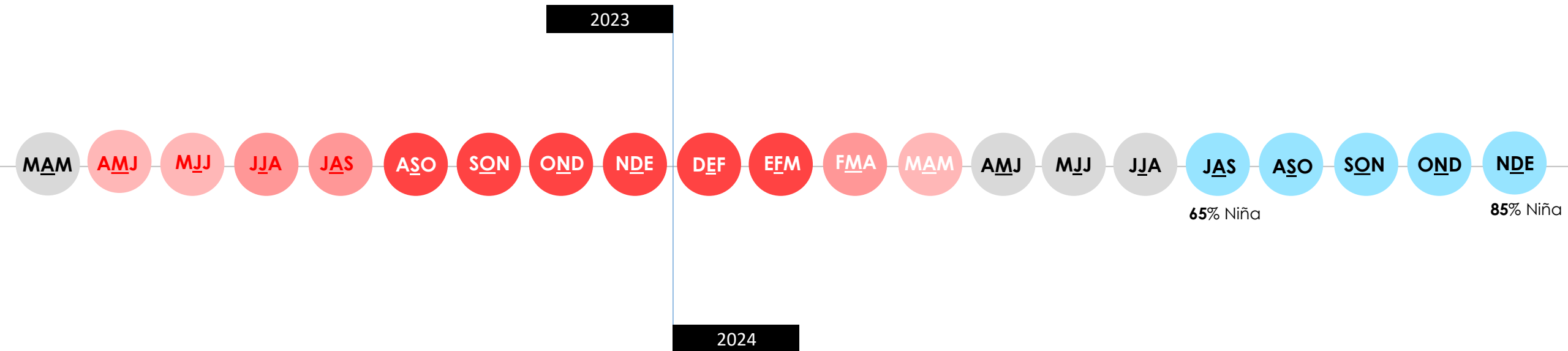
THA
Activa

ENOS
océano - atmósfera

Duración

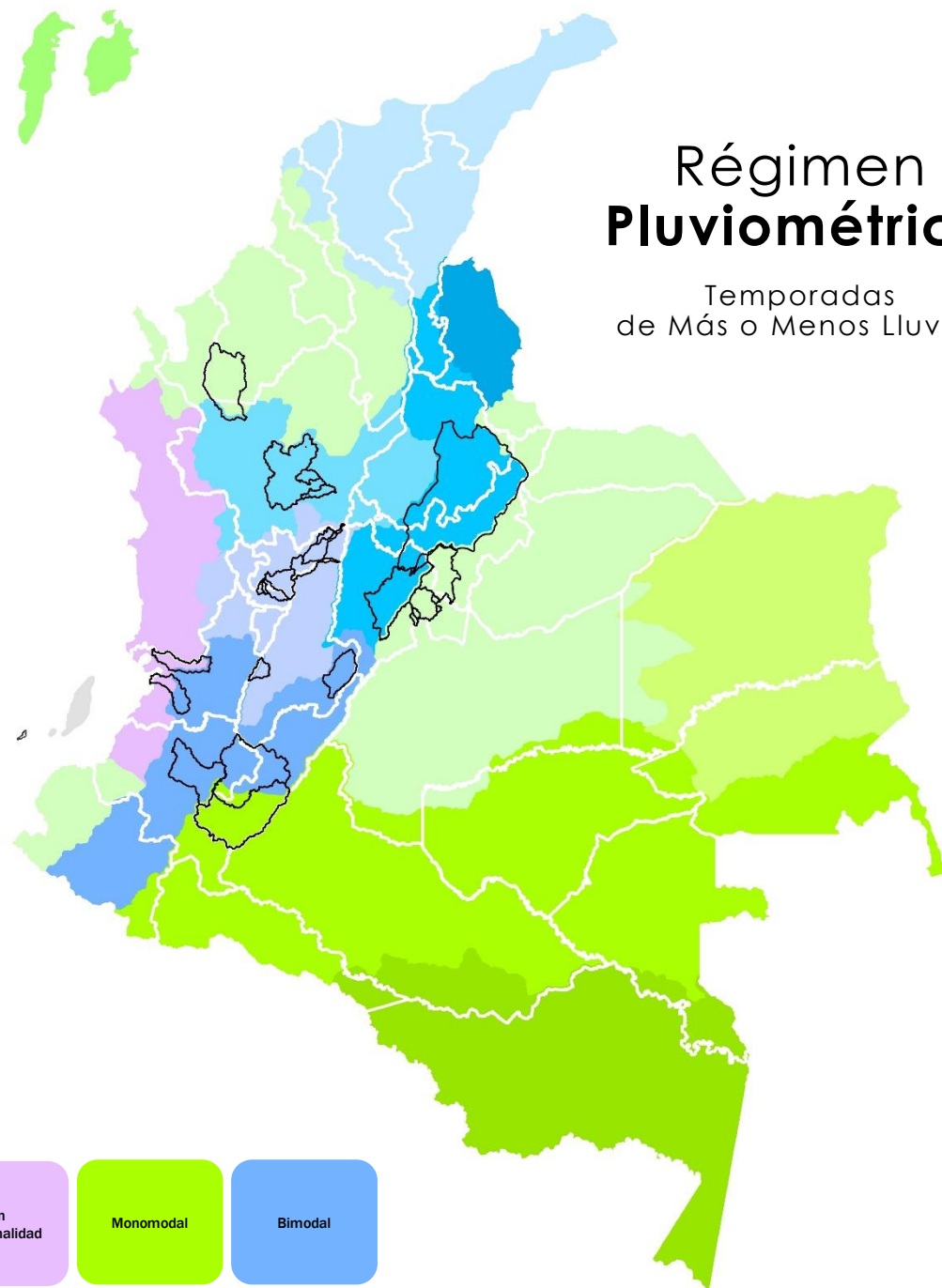
El Niño 2023-2024

Con base en el ONI - Preliminar



Régimen Pluviométrico

Temporadas de Más o Menos Lluvias

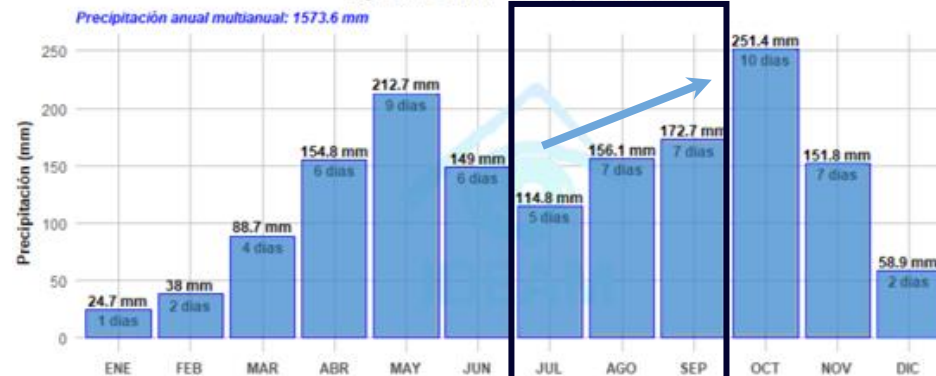


Sin Estacionalidad

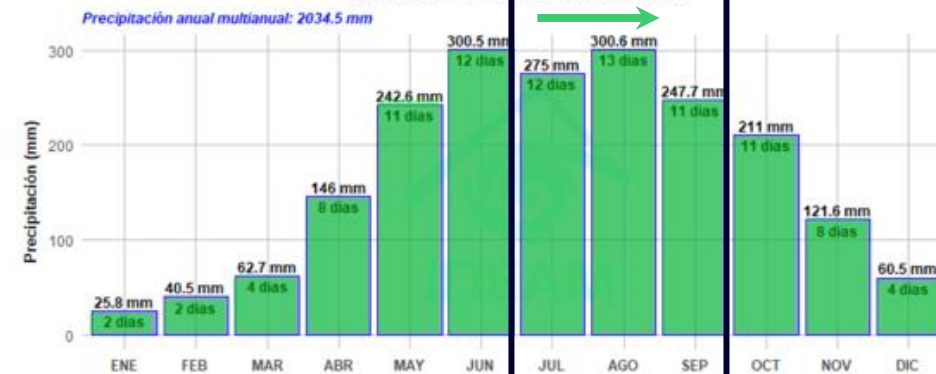
Monomodal

Bimodal

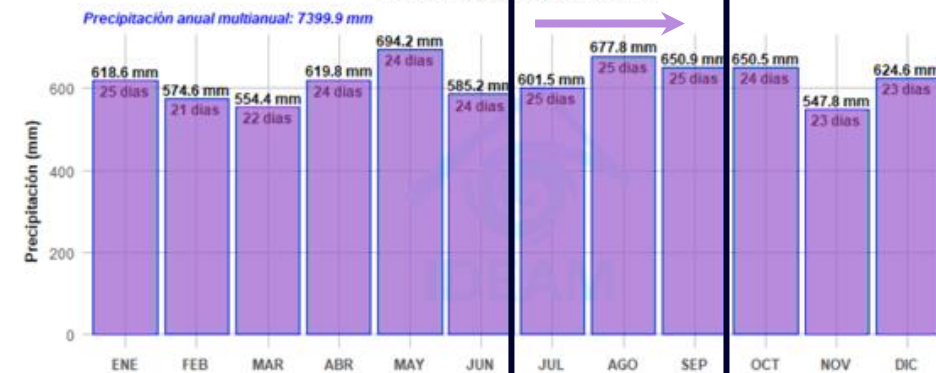
Precipitación y número de días con lluvia mensual multianual (1981 - 2010)
Estación Codazzi Dc [28020460]
Agustín Codazzi - Cesar | 90 m.s.n.m.



Precipitación y número de días con lluvia mensual multianual (1981 - 2010)
Estación Pica Pica [25010080]
Montelibano - Córdoba | 100 m.s.n.m.



Precipitación y número de días con lluvia mensual multianual (1981 - 2010)
Estación Apto Condoto [54025020]
Condoto - Chocó | 66 m.s.n.m.





1. SISTEMA CLIMÁTICO

MJO | ENOS

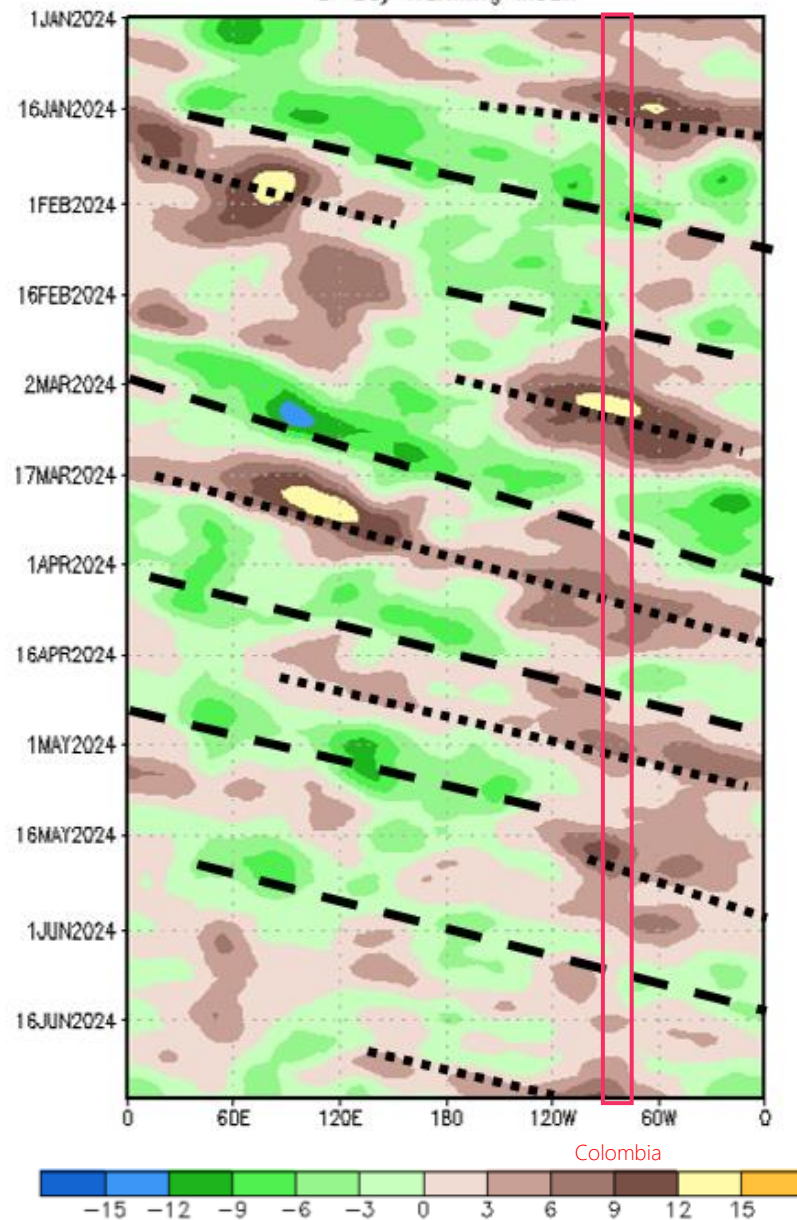
MJO

Intraestacional

Junio
Predominó la fase
subsidente.

200-hPa Velocity Potential Anomaly: 5N-5S

5-day Running Mean



Favorece
Convección

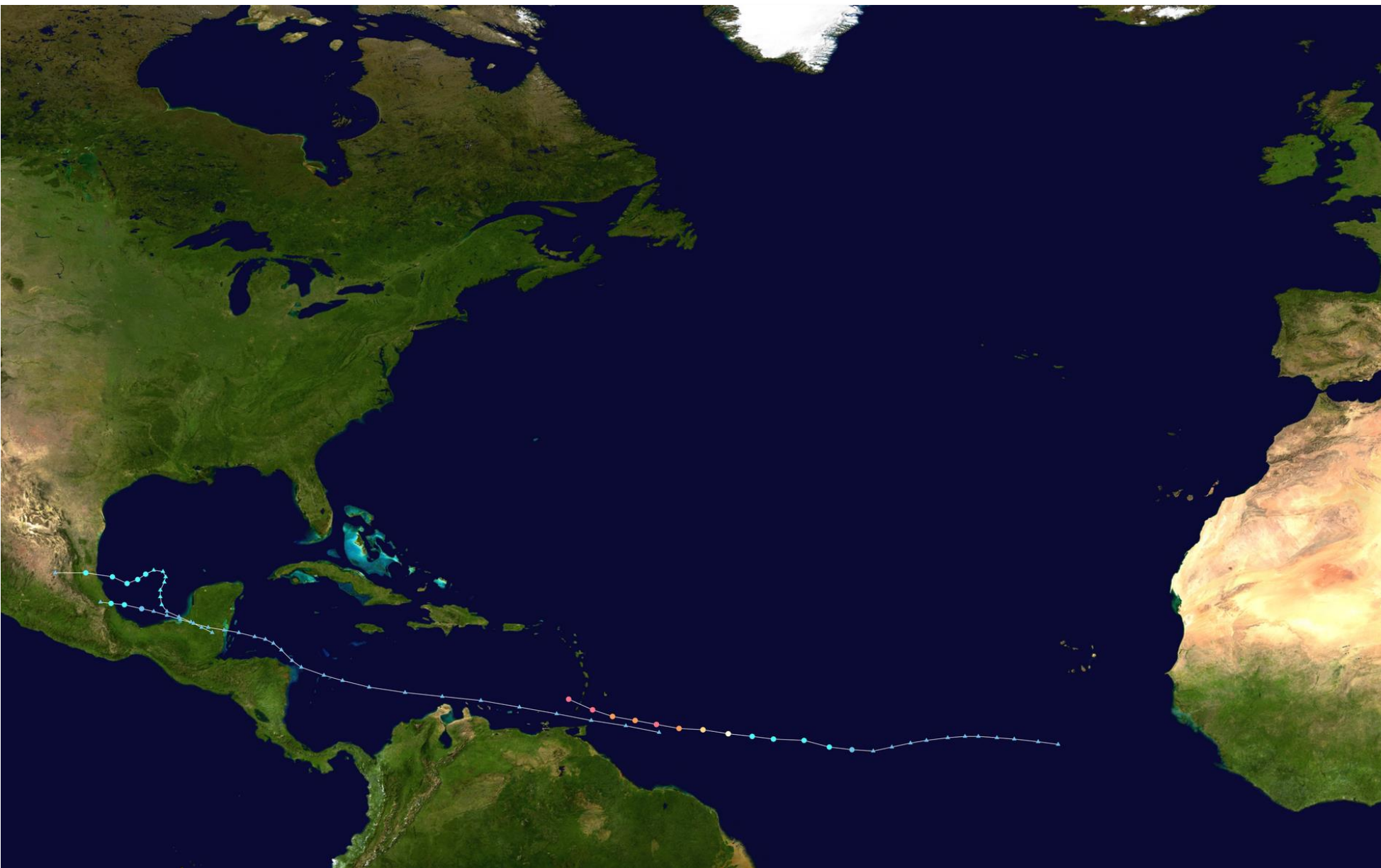


Inhibe
Convección

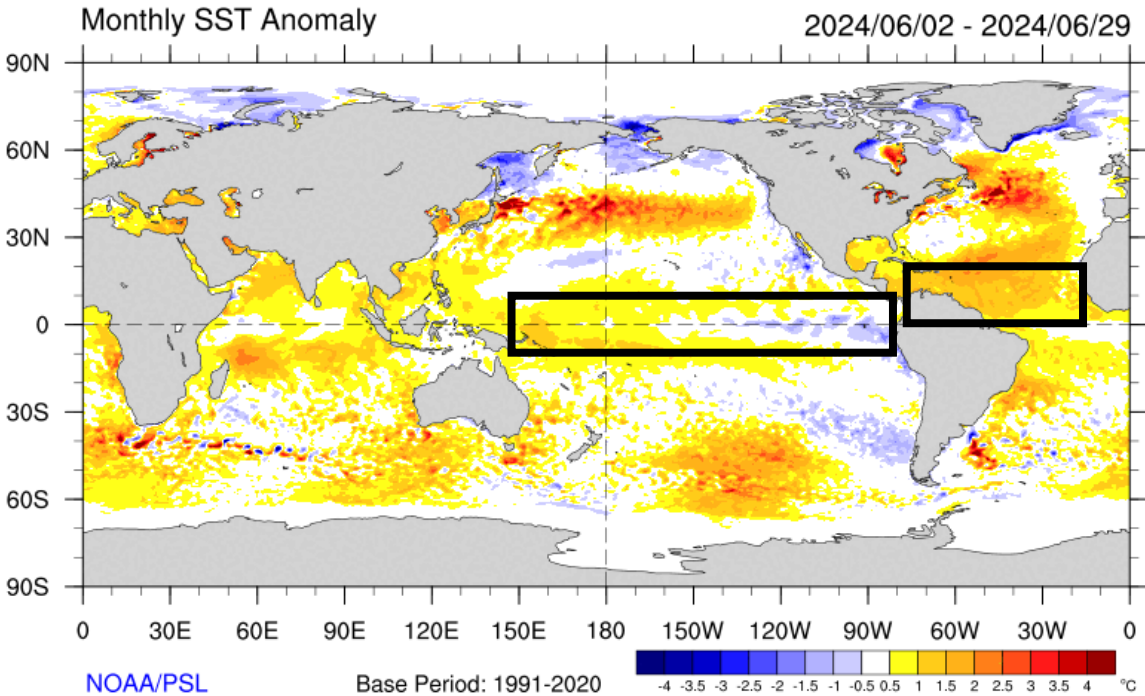
TEMPORADA HURACANES Atlántico

Varias ondas transitando y transportando humedad.

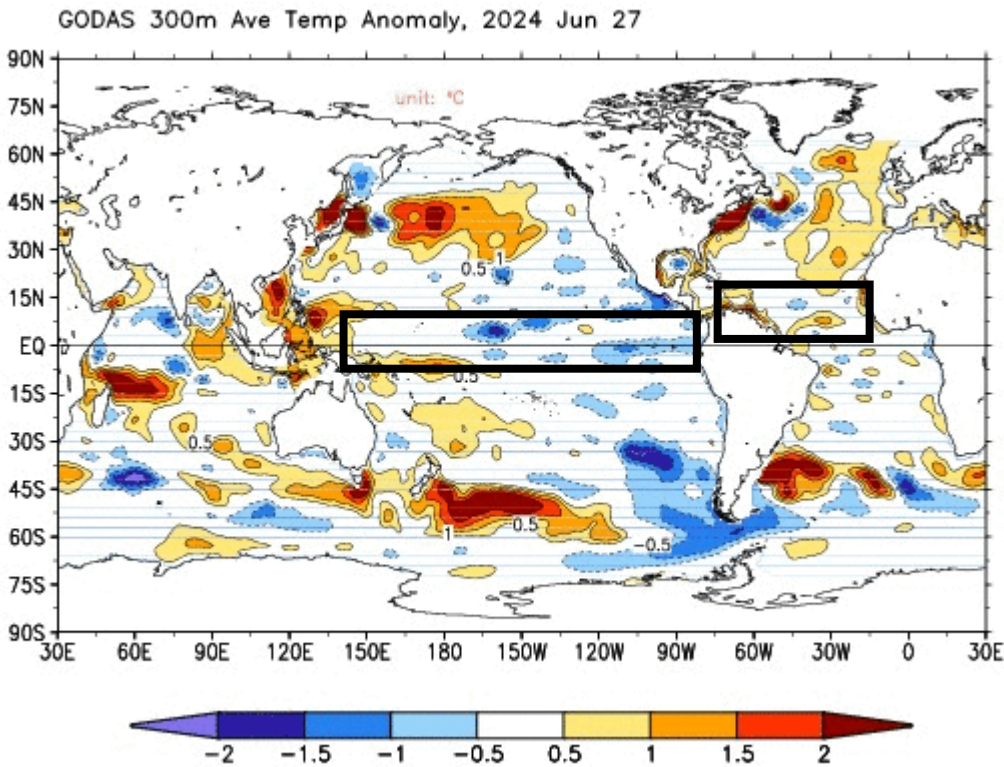
Desde el 1 de junio han transitado **18** ondas de las cuales **15** ondas han presentado incidencia en Colombia.



CAMPO TÉRMICO SUPERFICIAL

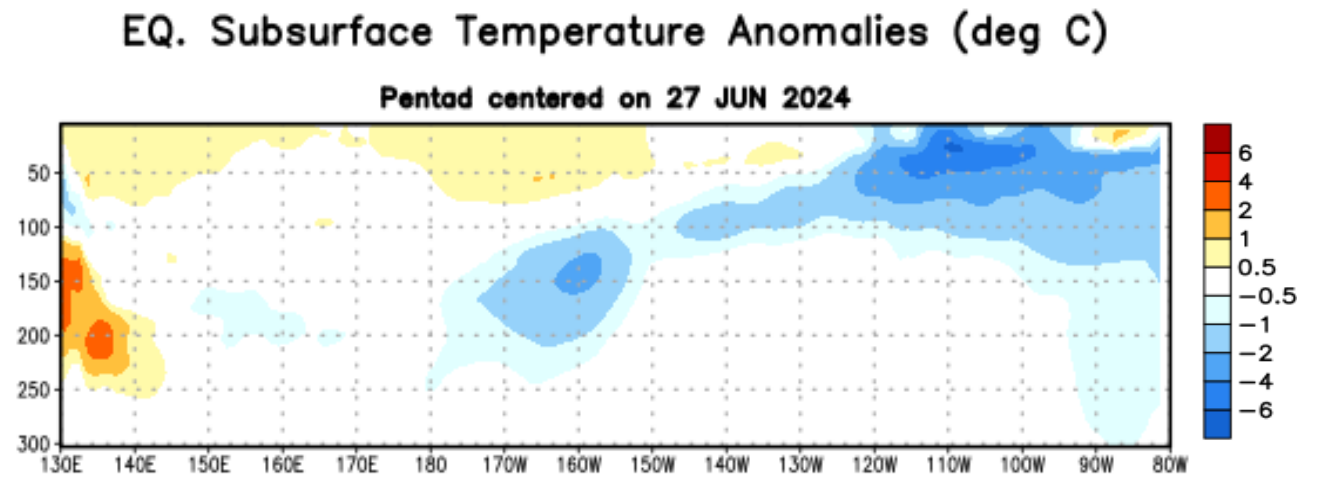
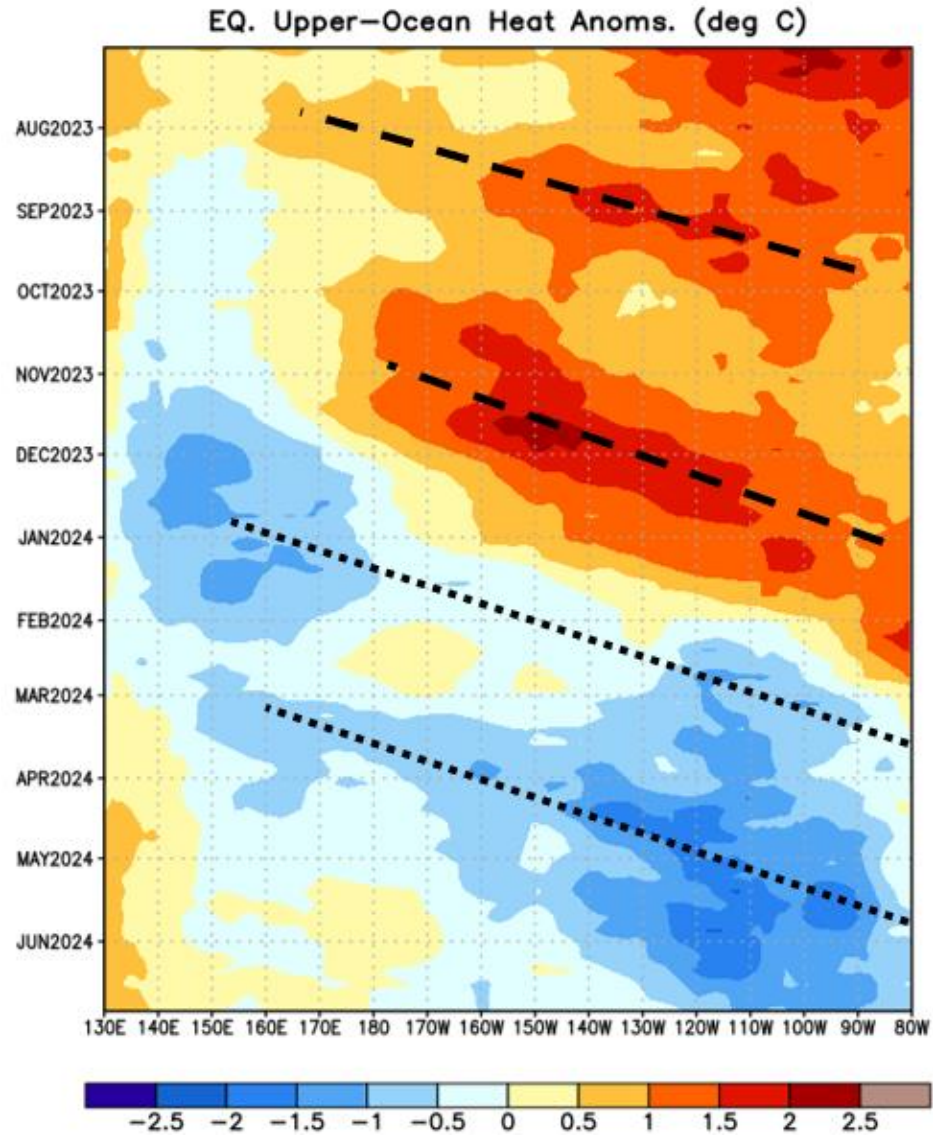


CAMPO TÉRMICO SUBSUPERFICIAL

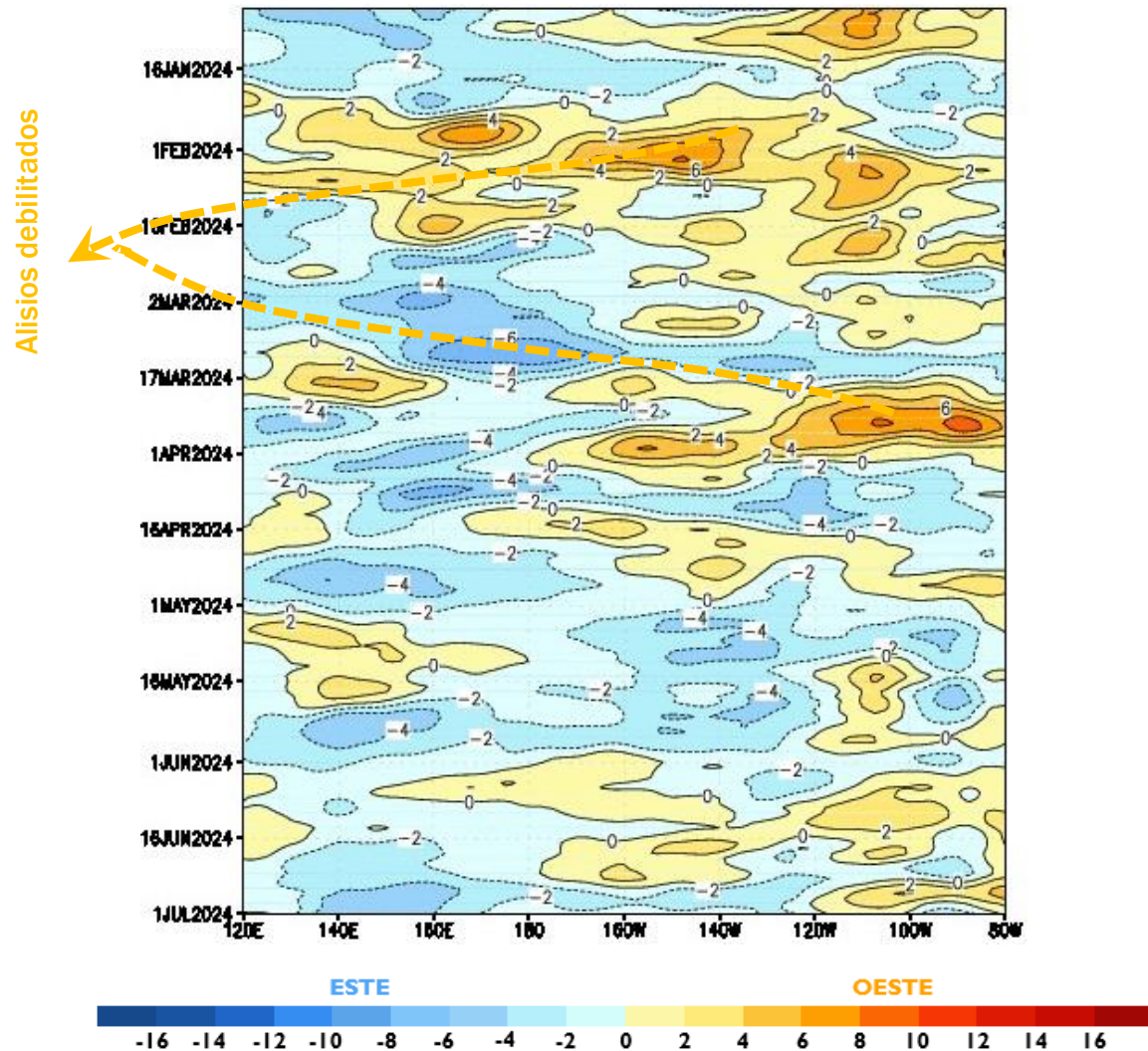


Región	Semana Anterior	Semana Actual
Niño 3.4	0.1 °C	0.1 °C

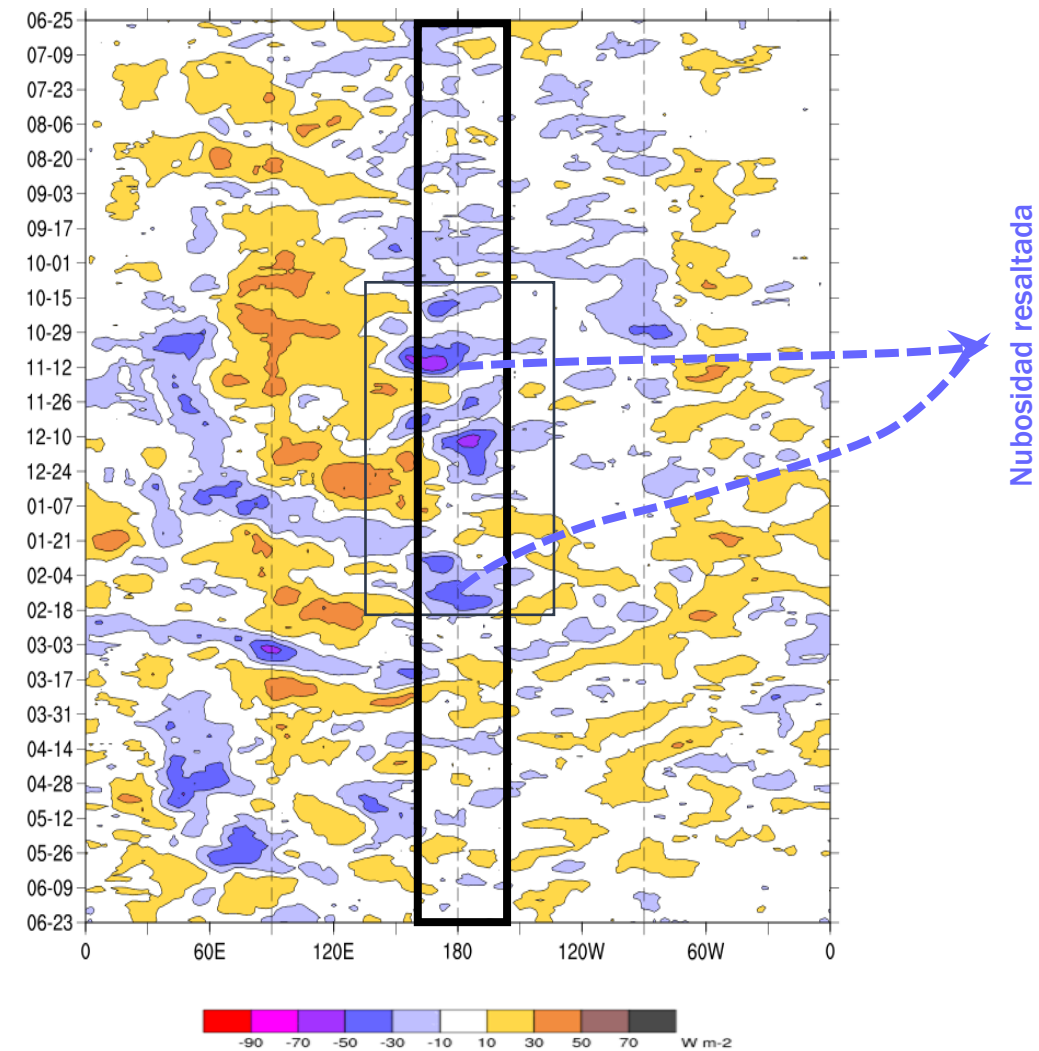
Núcleo de agua **fría** destacándose en la franja ORIENTAL.



ANOMALÍA DEL VIENTO EN SUPERFICIE



ANOMALÍA DE RADIACIÓN DE ONDA LARGA



INDICADORES DEL CICLO ENOS

MEIv2

Índice Multivariado del Ciclo El Niño - Oscilación del Sur.

- Basado en:
- 1. Presión del Nivel del Mar.
 - 2. Temperatura Superficial del Mar.
 - 3. Componente Zonal de Viento (este-oeste).
 - 4. Componente Meridional del Viento (norte-sur).
 - 5. Radiación de Onda Larga.

Condición más reciente
EF: Niño Acoplado

Interpretación

Valores
≥ 0.5
El Niño

Valores
>-0.5 < 0.5
Neutral

Valores
≤ -0.5
La Niña

ONI – ERSST.v5

Indicador El Niño.

- Basado en:
- 1. Temperatura Superficial del Mar.

Condición más reciente
AMJ: Neutral

Tabla
No. 1

MEIv2

<https://www.esrl.noaa.gov/psd/enso/mei/>

	DE	EF	FM	MA	AM	MJ	JJ	JA	AS	SO	ON	ND
2010	0.9	1.3	1.3	0.5	-0.1	-1.3	-2.4	-2.4	-2.3	-2.2	-2	-1.9
2011	-1.8	-1.6	-1.7	-1.7	-1.2	-1	-0.7	-0.8	-1.1	-1.3	-1.1	-1.2
2012	-1.1	-0.7	-0.6	-0.4	-0.3	-0.3	0.3	0	-0.3	-0.2	0	0
2013	-0.1	-0.1	-0.1	-0.3	-0.7	-1.1	-0.8	-0.4	-0.3	-0.1	-0.2	-0.3
2014	-0.5	-0.4	0	-0.2	-0.2	0	0.4	0.2	-0.1	0.1	0.4	0.4
2015	0.2	0.1	0.2	0.3	1	1.9	1.8	2	2.2	2.2	1.9	1.9
2016	1.9	1.8	1.3	1.3	1.2	0.4	-0.5	-0.3	-0.3	-0.5	-0.5	-0.4
2017	-0.4	-0.4	-0.6	-0.2	0.2	-0.2	-0.6	-0.7	-0.7	-0.6	-0.6	-0.7
2018	-0.8	-0.7	-0.8	-1.3	-0.9	-0.5	0	0.5	0.6	0.5	0.3	0.2
2019	0.1	0.5	0.8	0.3	0.2	0.4	0.3	0.3	0.2	0.3	0.5	0.4
2020	0.3	0.3	0.1	-0.1	-0.2	-0.7	-0.9	-1.0	-1.1	-1.2	-1.1	-1.1
2021	-1.2	-1.0	-0.8	-0.9	-1.1	-1	-1.4	-1.3	-1.4	-1.5	-1.4	-1.2
2022	-1	-1	-1.3	-1.6	-1.6	-1.9	-2.2	-1.7	-1.7	-1.7	-1.5	-1.3
2023	-1.1	-0.9	-0.8	-0.4	0.0	0.4	0.5	0.5	0.7	0.5	0.9	1.1
2024	0.7	0.7										

Tabla
No. 2

ONI - ERSST.v5

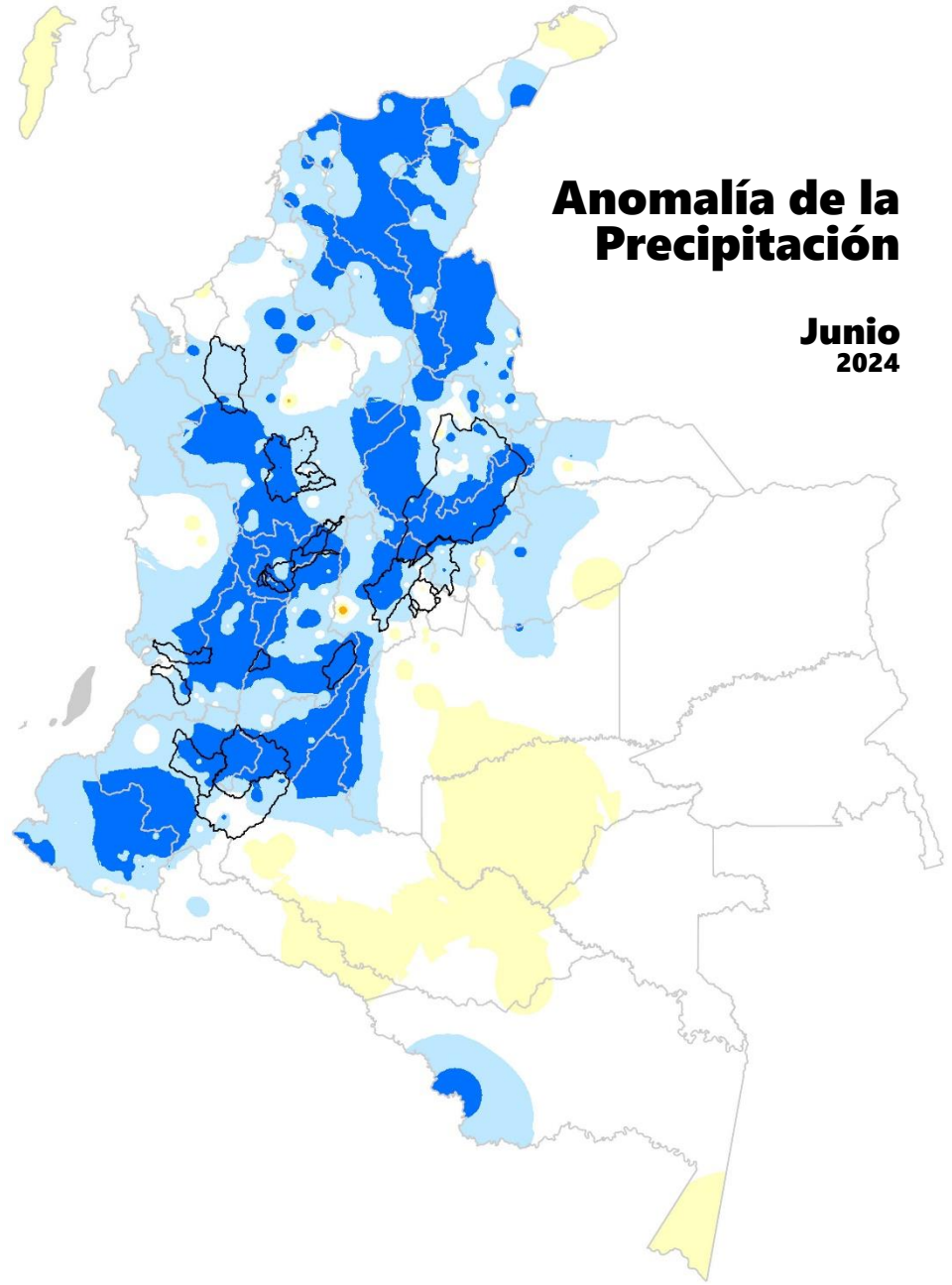
https://origin.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ONI_v5.php

	DEF	EFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDE
2010	1.5	1.3	0.9	0.4	-0.1	-0.6	-1.0	-1.4	-1.6	-1.7	-1.7	-1.6
2011	-1.4	-1.1	-0.8	-0.6	-0.5	-0.4	-0.5	-0.7	-0.9	-1.1	-1.1	-1.0
2012	-0.8	-0.6	-0.5	-0.4	-0.2	0.1	0.3	0.3	0.3	0.2	0.0	-0.2
2013	-0.4	-0.3	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.3	-0.2	-0.2	-0.3
2014	-0.4	-0.4	-0.2	0.1	0.3	0.2	0.1	0.0	0.2	0.4	0.6	0.7
2015	0.6	0.6	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.5	2.6
2016	2.5	2.2	1.7	1.0	0.5	0.0	-0.3	-0.6	-0.7	-0.7	-0.7	-0.6
2017	-0.3	-0.1	0.1	0.3	0.4	0.4	0.2	-0.1	-0.4	-0.7	-0.9	-1.0
2018	-0.9	-0.8	-0.6	-0.4	-0.1	0.1	0.1	0.2	0.4	0.7	0.9	0.8
2019	0.8	0.8	0.8	0.7	0.6	0.5	0.3	0.1	0.1	0.3	0.5	0.5
2020	0.5	0.6	0.4	0.3	0.0	-0.2	-0.4	-0.6	-1.0	-1.2	-1.3	-1.2
2021	-1.1	-0.9	-0.8	-0.7	-0.5	-0.4	-0.4	-0.5	-0.7	-0.8	-1.0	-1.0
2022	-1.0	-0.9	-1.0	-1.1	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8
2023	-0.7	-0.4	-0.1	0.2	0.5	0.8	1.1	1.3	1.6	1.8	1.9	2.0
2023	1.8	1.5	1.1	0.7	0.4							



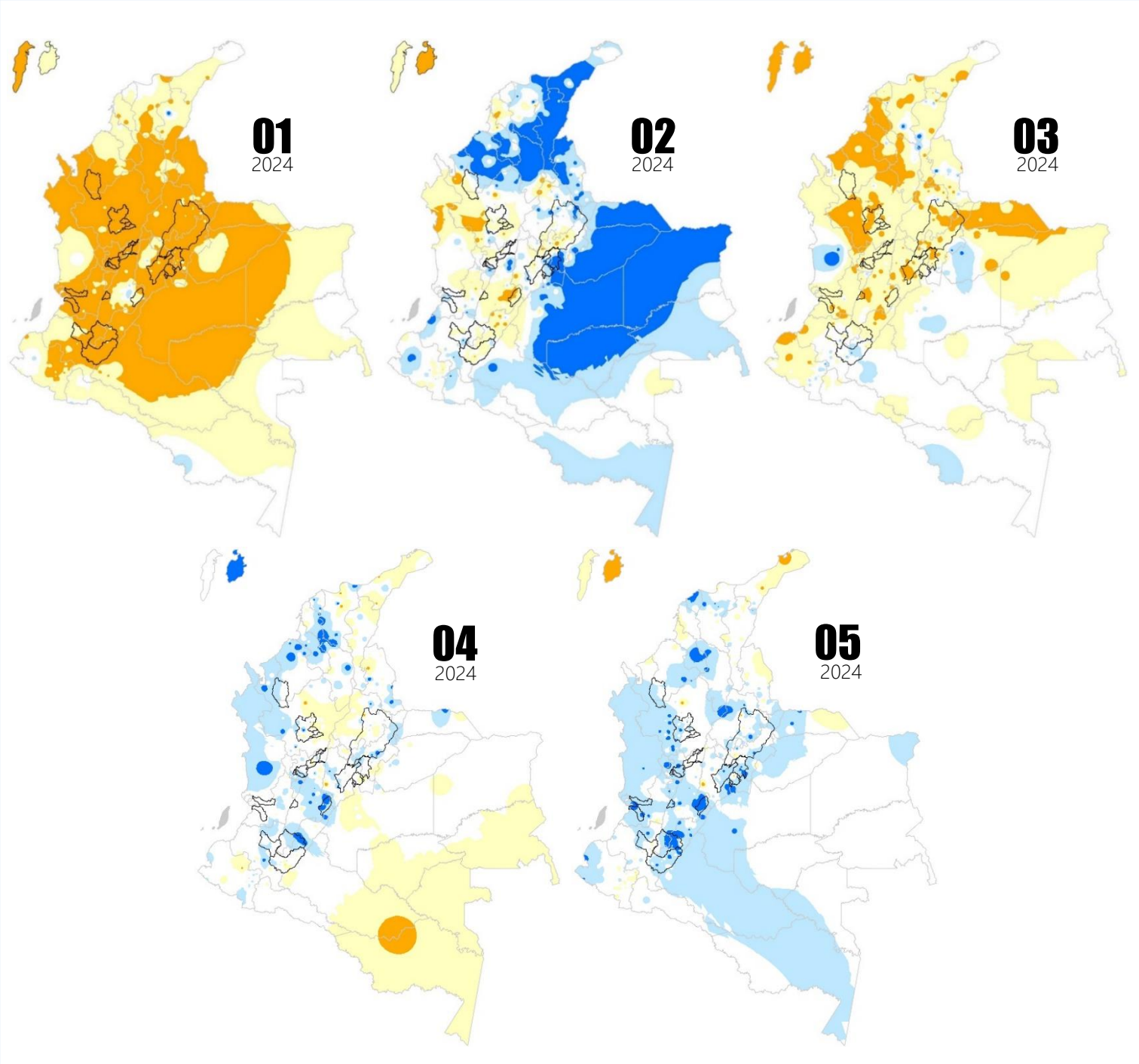
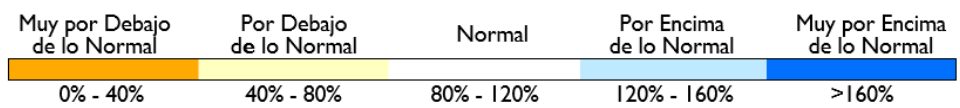
MINISTERIO DE AMBIENTE Y
DESARROLLO SOSTENIBLE

2. SEGUIMIENTO CLIMÁTICO 2024



**Anomalía de la
Precipitación**

**Junio
2024**



01
2024

02
2024

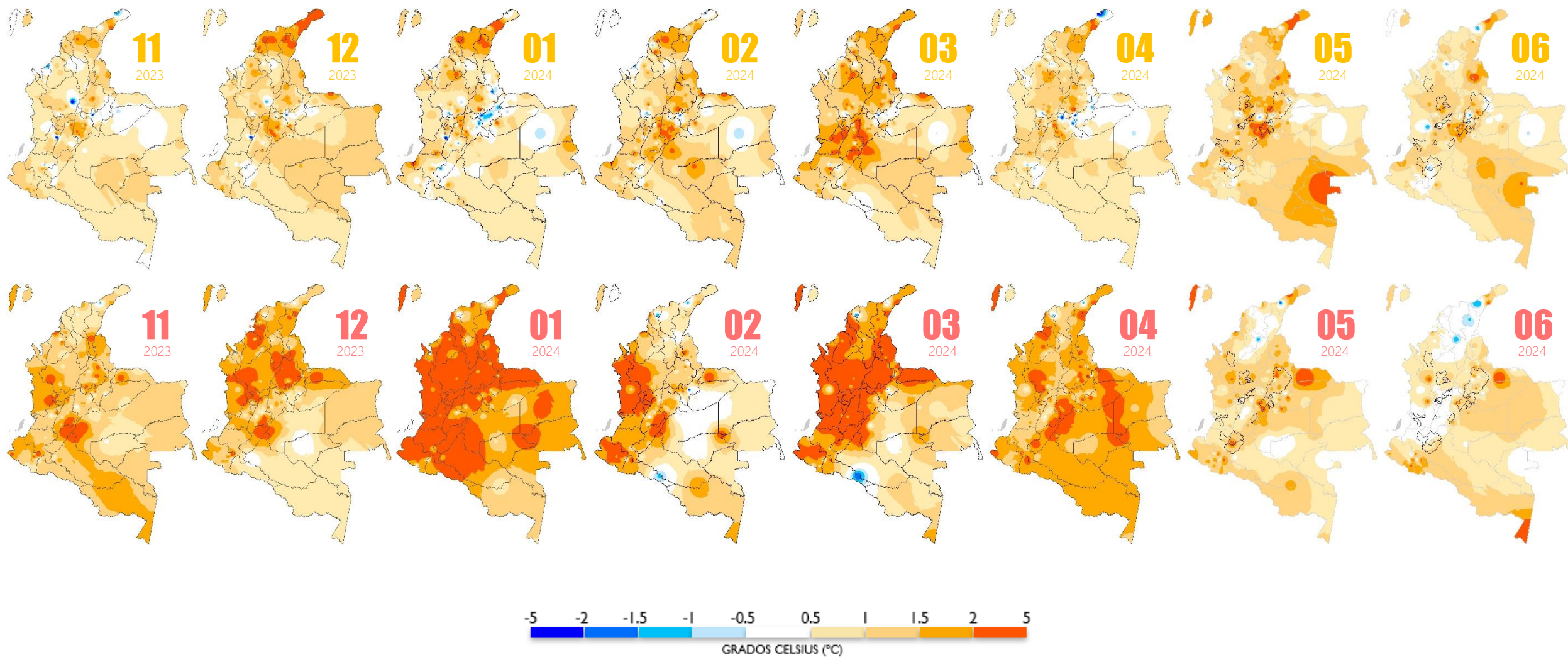
03
2024

04
2024

05
2024

Anomalía de las temperaturas extremas

mínimas y máximas



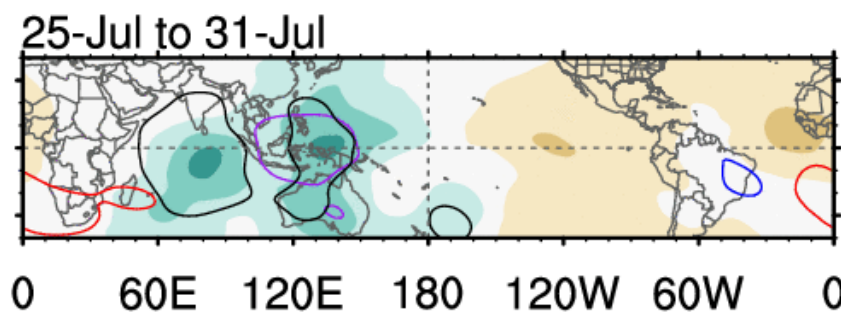
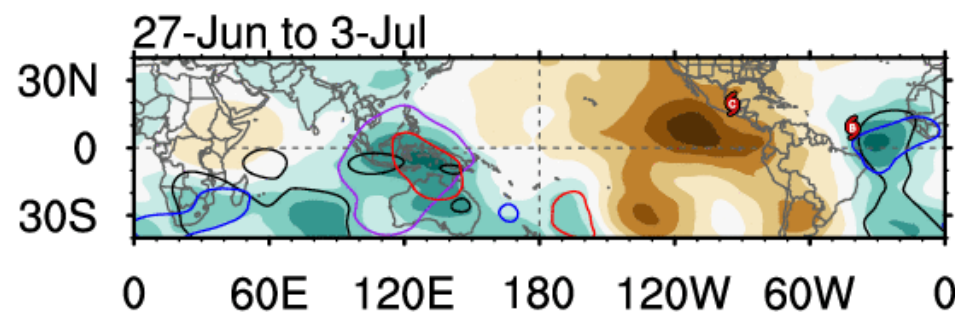
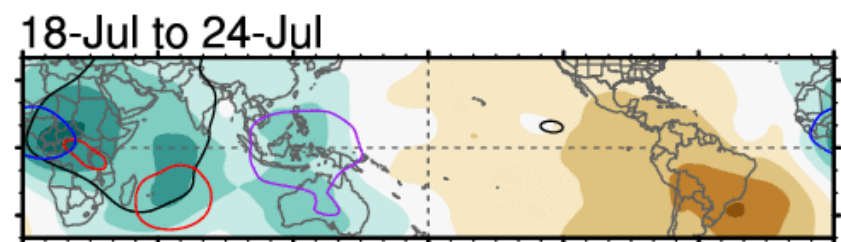
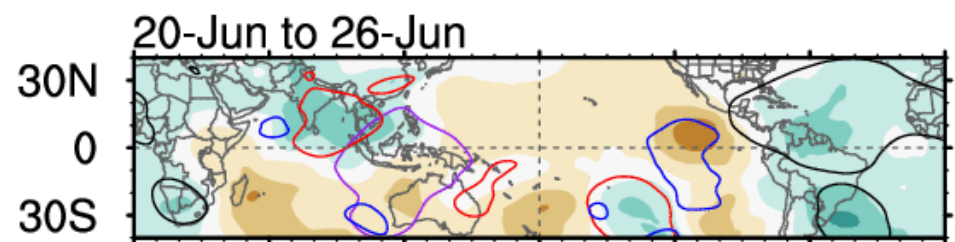
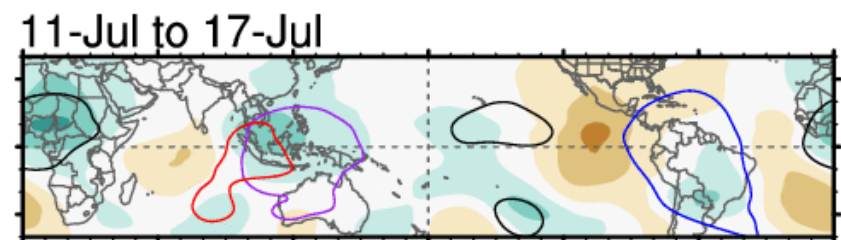
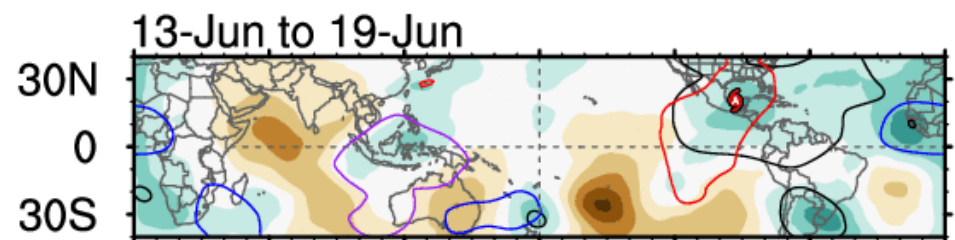
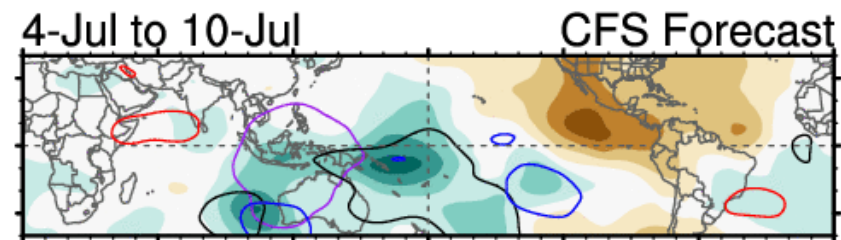
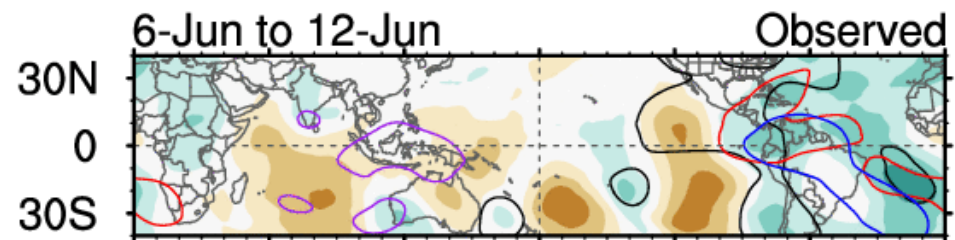


3. PREDICCIÓN CLIMÁTICA

JUL | AGO | SEP

ONDAS ECUATORIALES

Observado | Proyección



— MJO

— Kelvin x2

— Low

— ER

10

+ nubes

17

24

- nubes

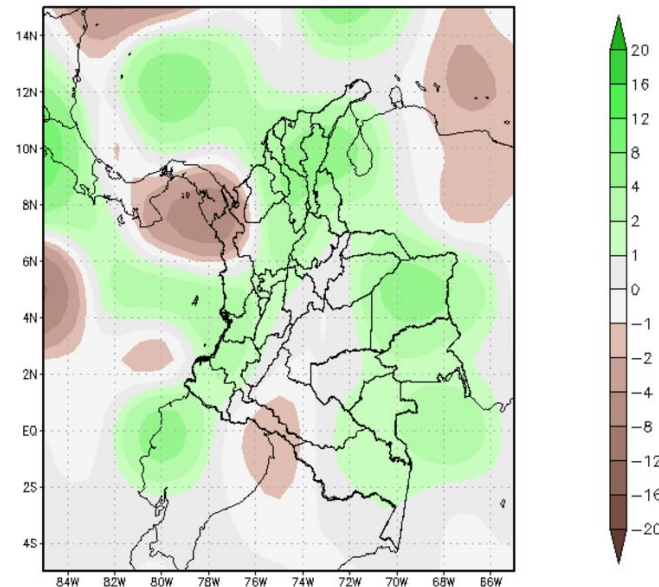
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Predicción Subestacional

determinística

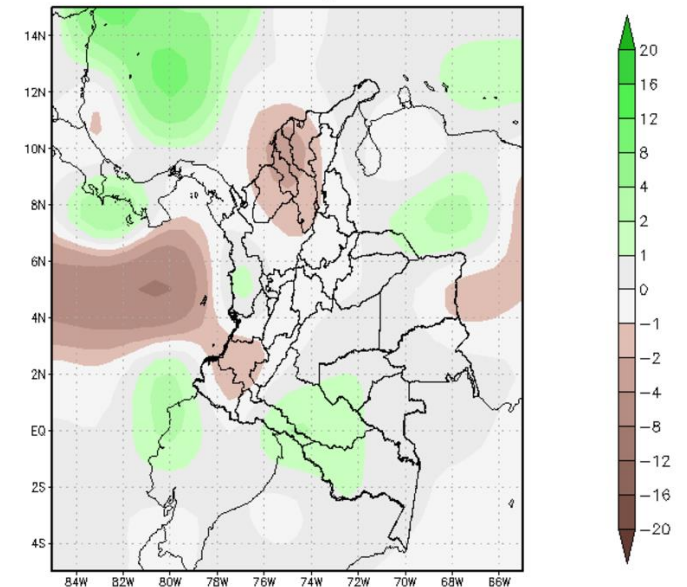
1

Ideam - Anom (mm/día) PREC MODELO: CFSv2 Fuente: NOAA
Predicción semana 1: 03072024 y 09072024 CI: 02072024



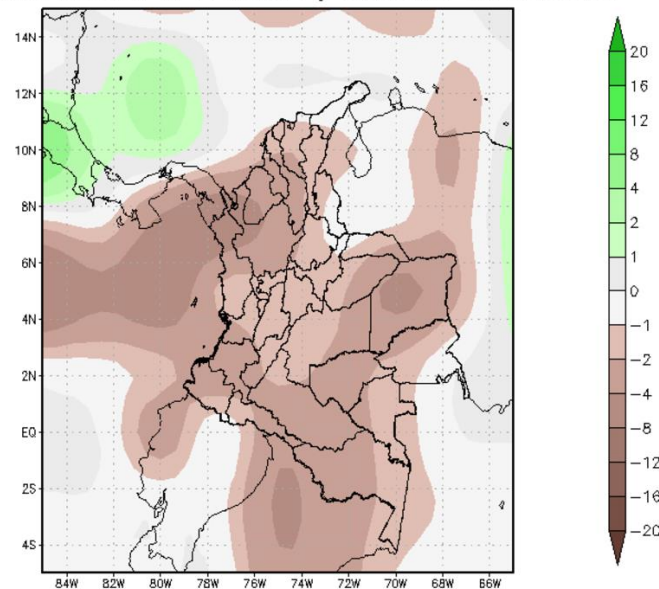
2

Ideam - Anom (mm/día) PREC MODELO: CFSv2 Fuente: NOAA
Predicción semana 2: 10072024 y 16072024 CI: 02072024



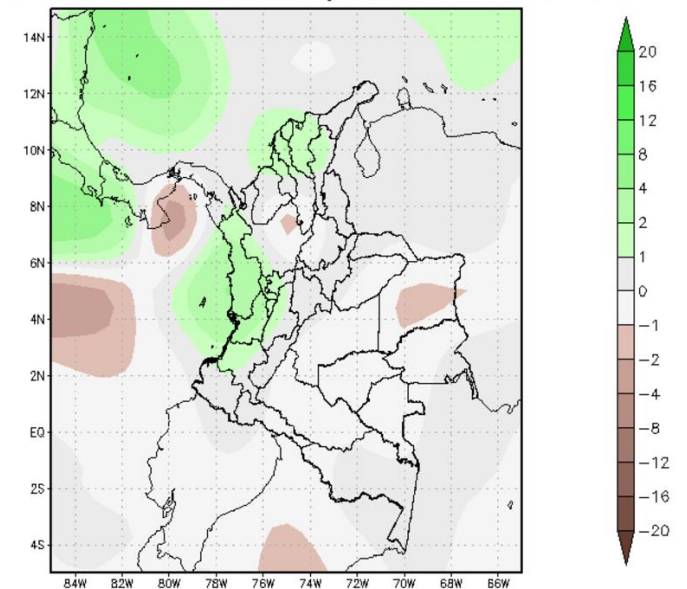
3

Ideam - Anom (mm/día) PREC MODELO: CFSv2 Fuente: NOAA
Predicción semana 3: 17072024 y 23072024 CI: 02072024



4

Ideam - Anom (mm/día) PREC MODELO: CFSv2 Fuente: NOAA
Predicción semana 4: 24072024 y 30072024 CI: 02072024

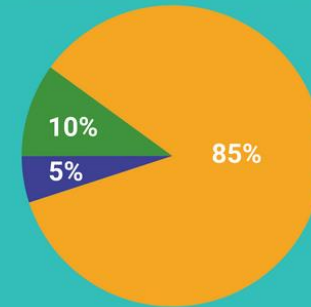


+ anomalías

- anomalías

TEMPORADA DE HURACANES

Observado | Proyección



Above normal Near normal Below normal

Season probability

Named storms

17 - 25

Hurricanes

8 - 13

Major hurricanes

4 - 7


BERYL



57 AM EDT
Jul 04 2024

90W

80W

70W

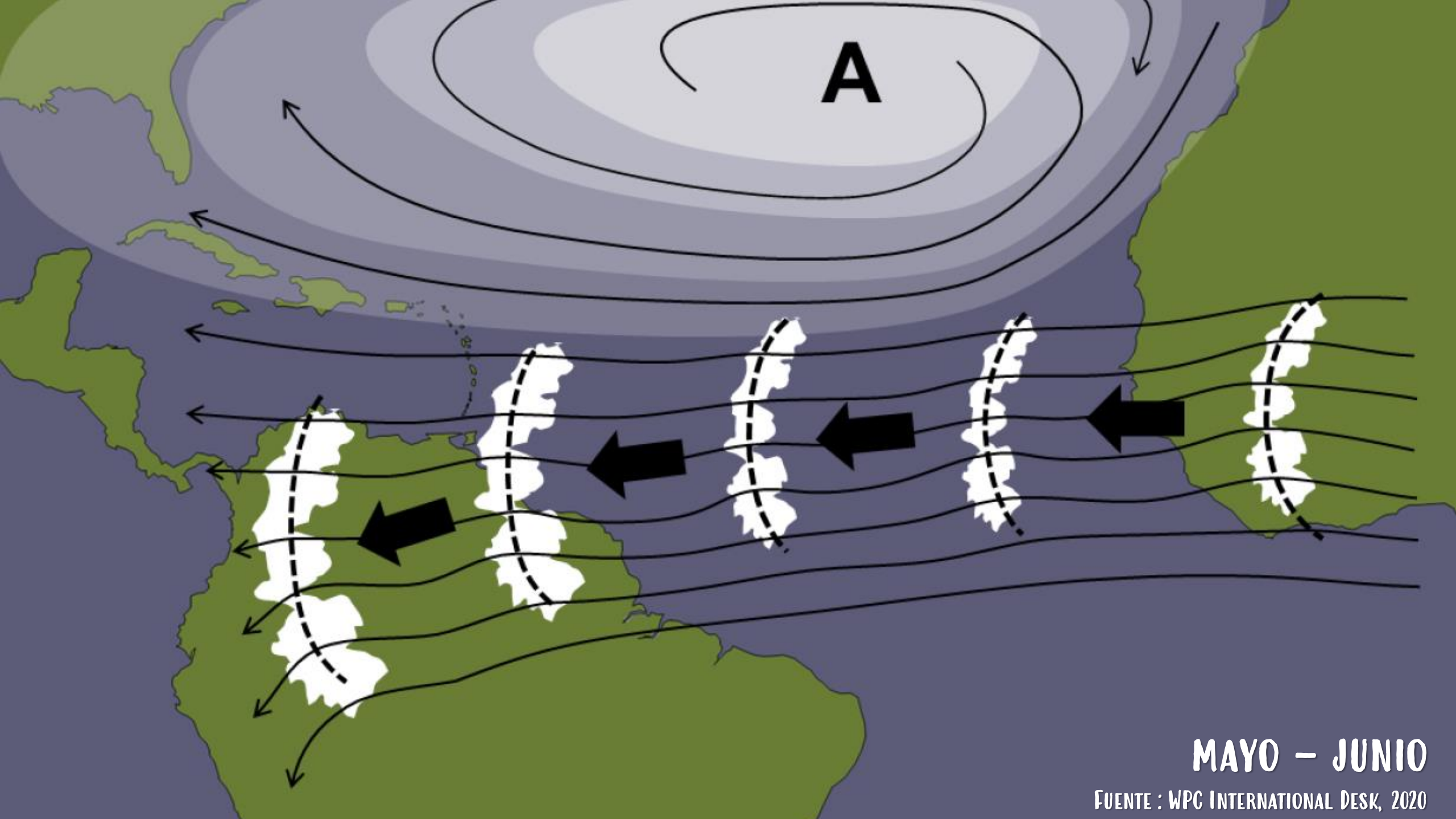
60W

50W

40W

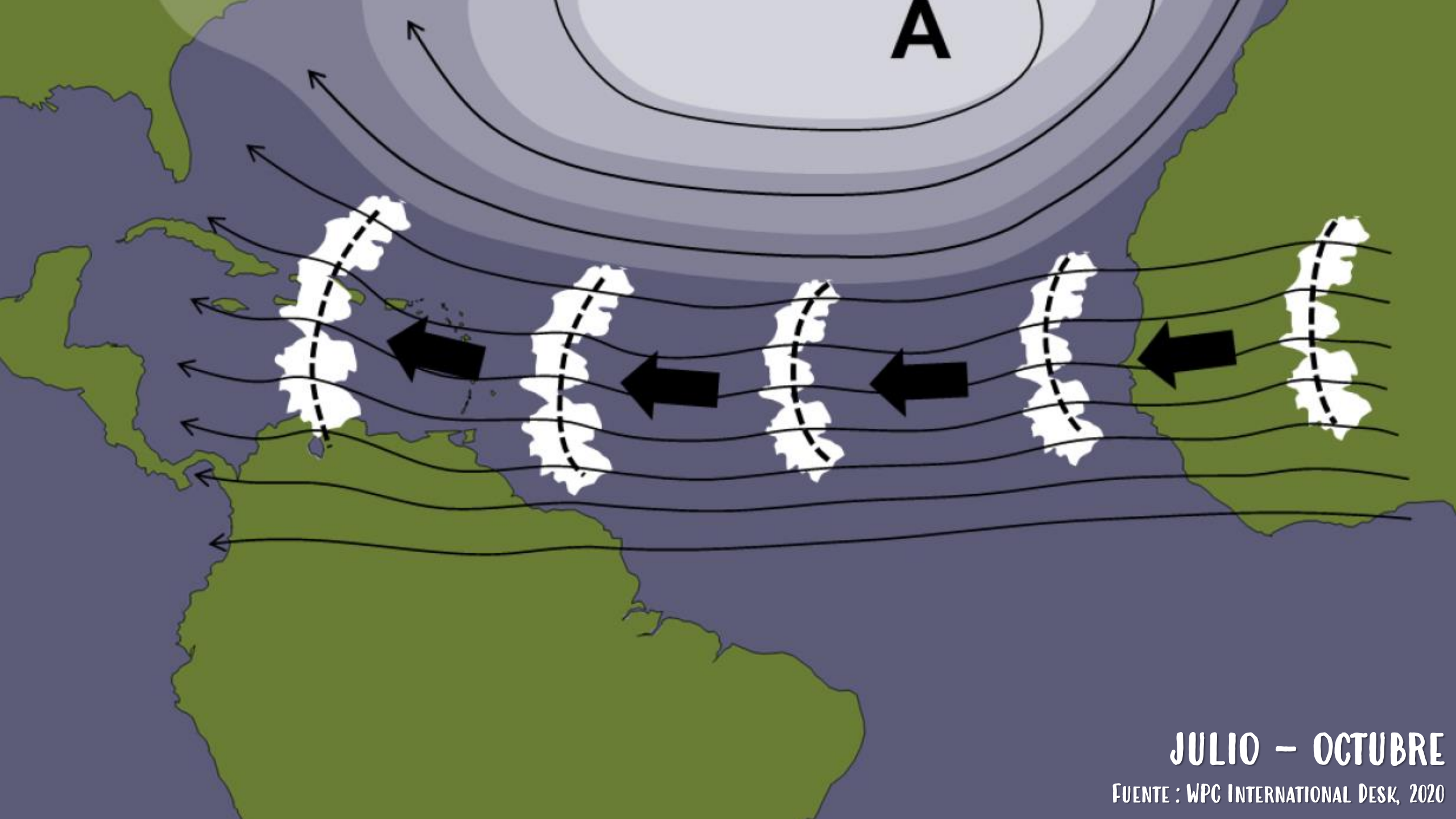
30W

20W



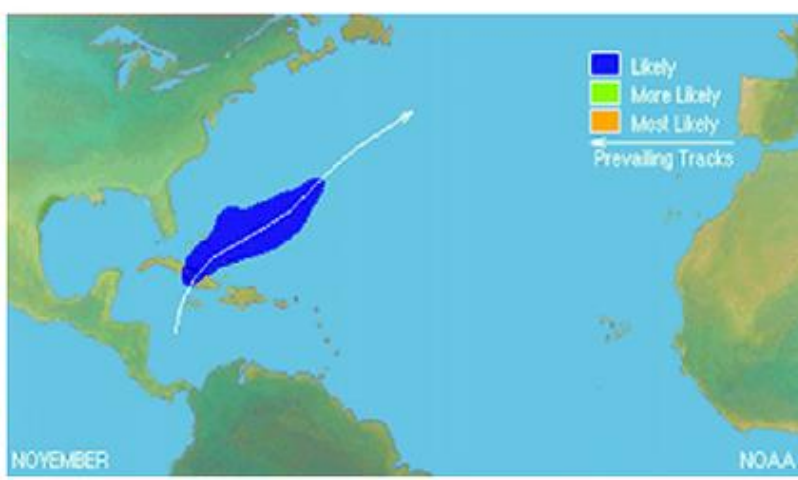
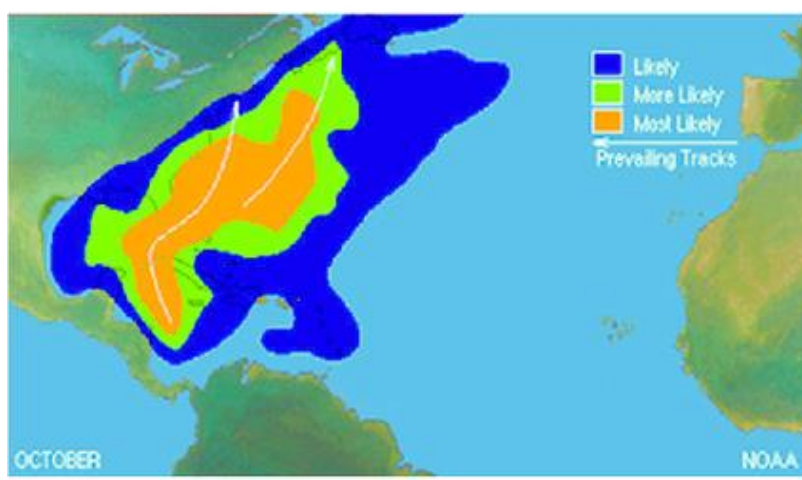
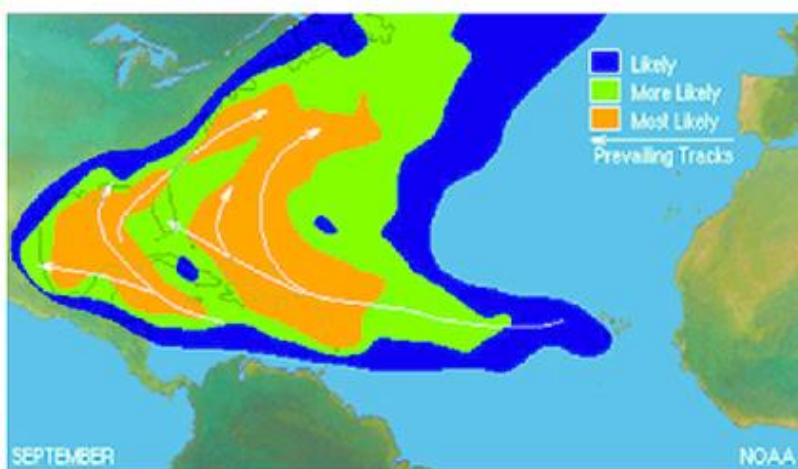
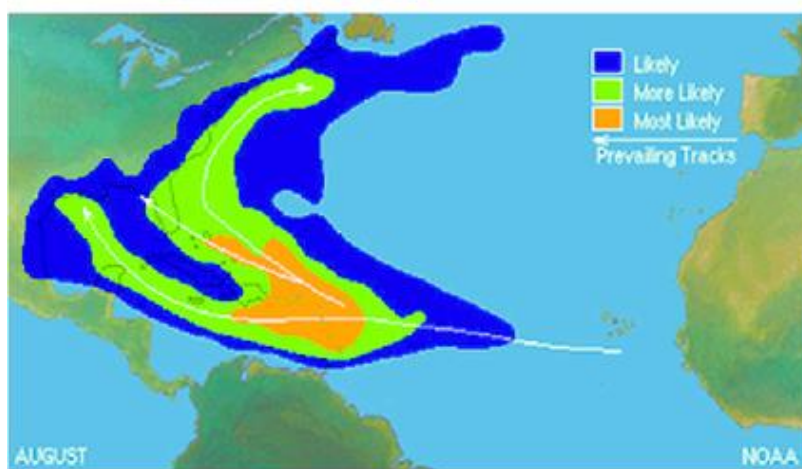
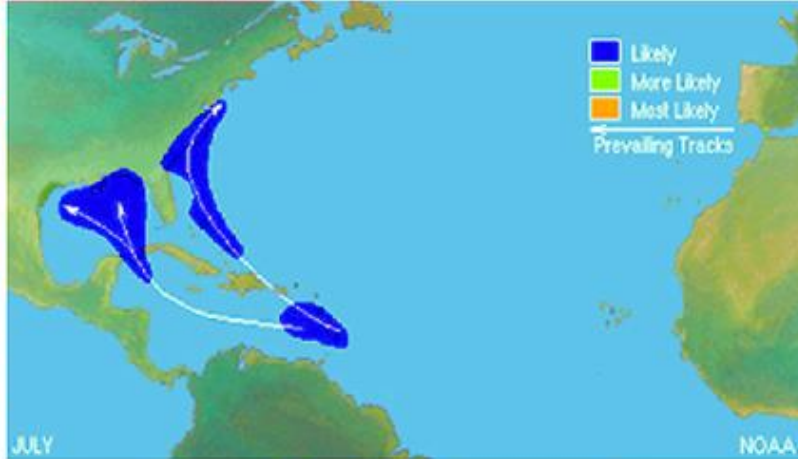
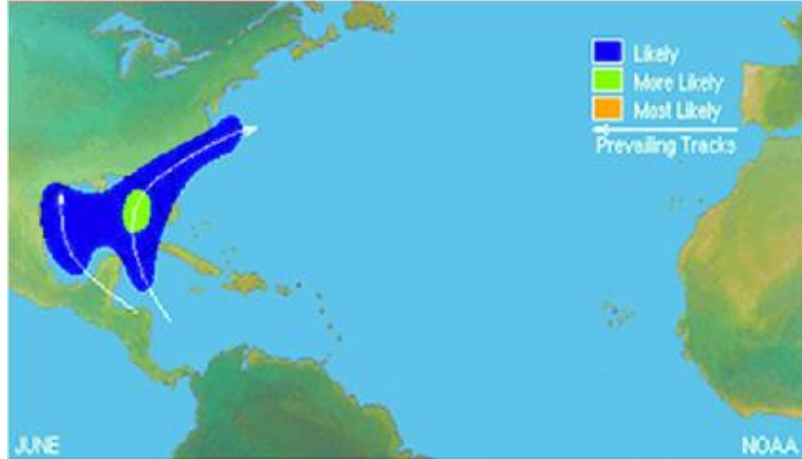
MAYO – JUNIO

FUENTE : WPC INTERNATIONAL DESK, 2020



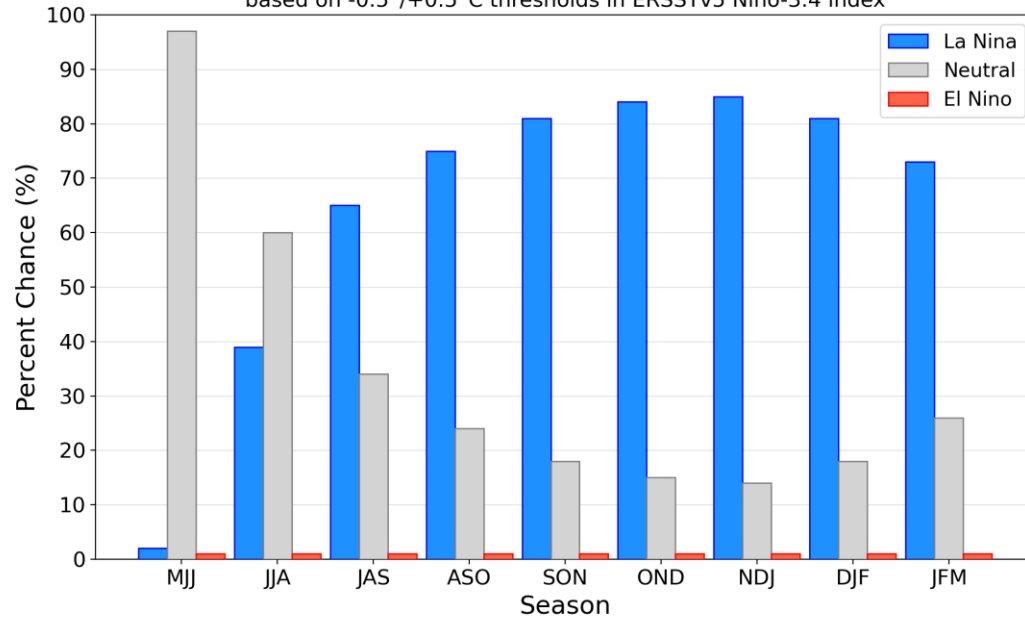
JULIO – OCTUBRE

FUENTE : WPC INTERNATIONAL DESK, 2020



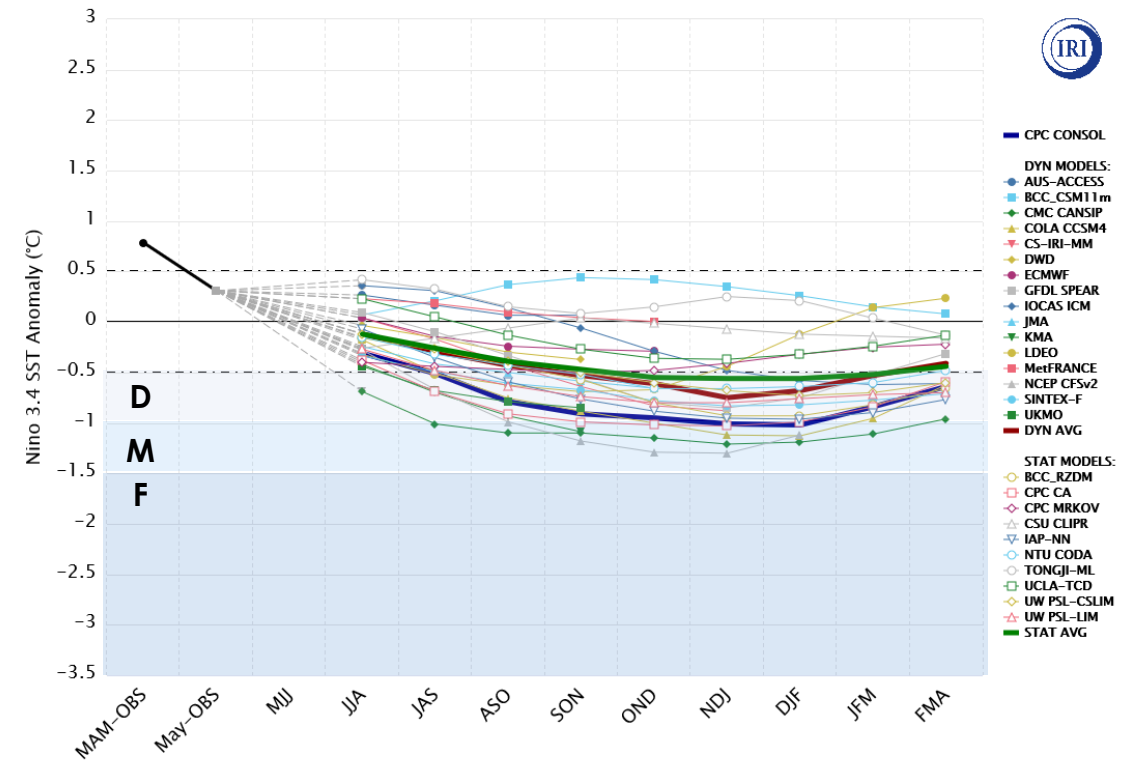
Official NOAA CPC ENSO Probabilities (issued June 2024)

based on $-0.5^{\circ}/+0.5^{\circ}\text{C}$ thresholds in ERSSTv5 Niño-3.4 index



Niña - JAS (65%)
Niña - NDE (85%)

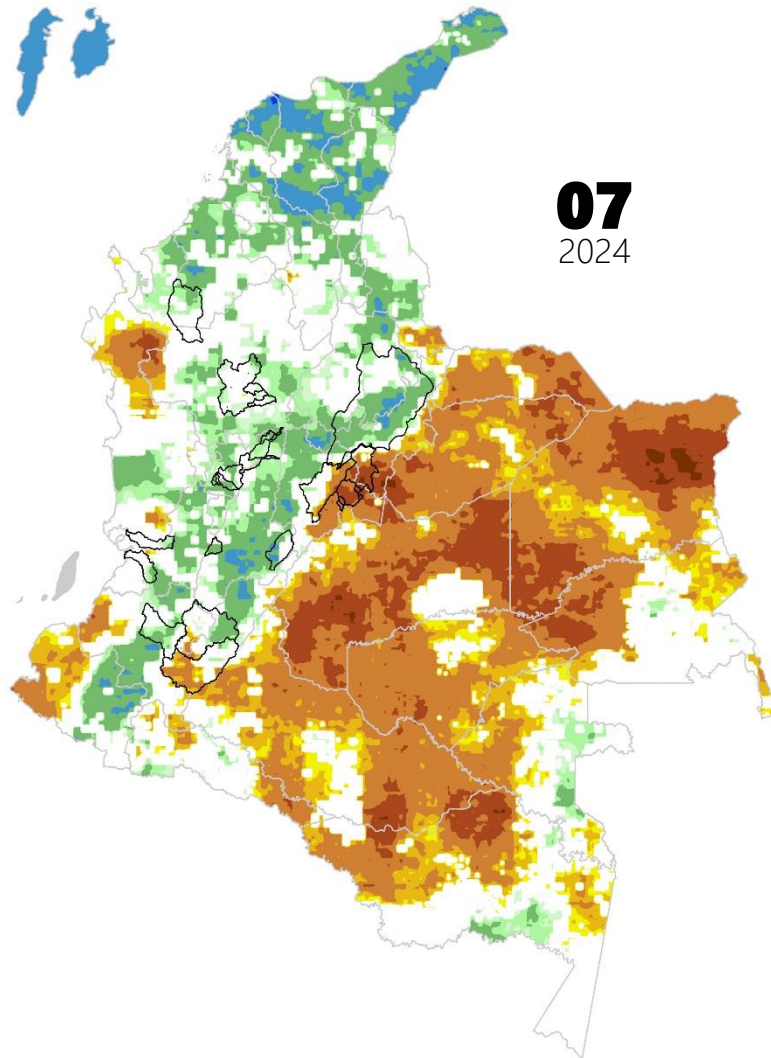
Model Predictions of ENSO from Jun 2024



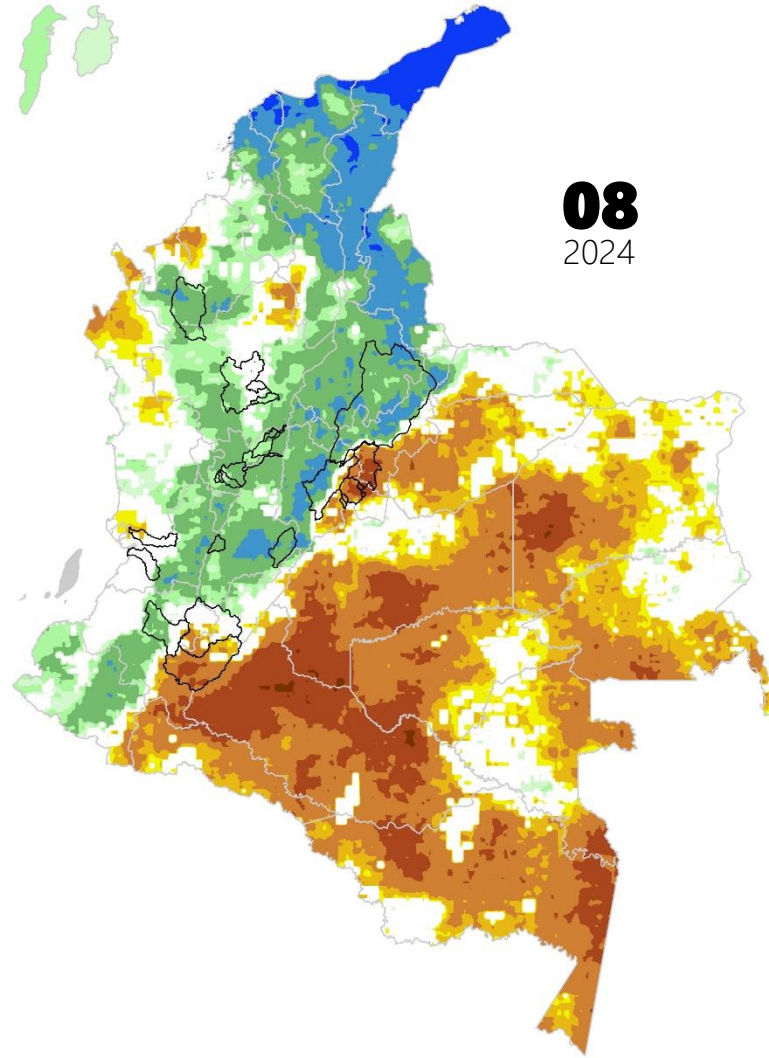
Predicción probabilística

JUL - SEP

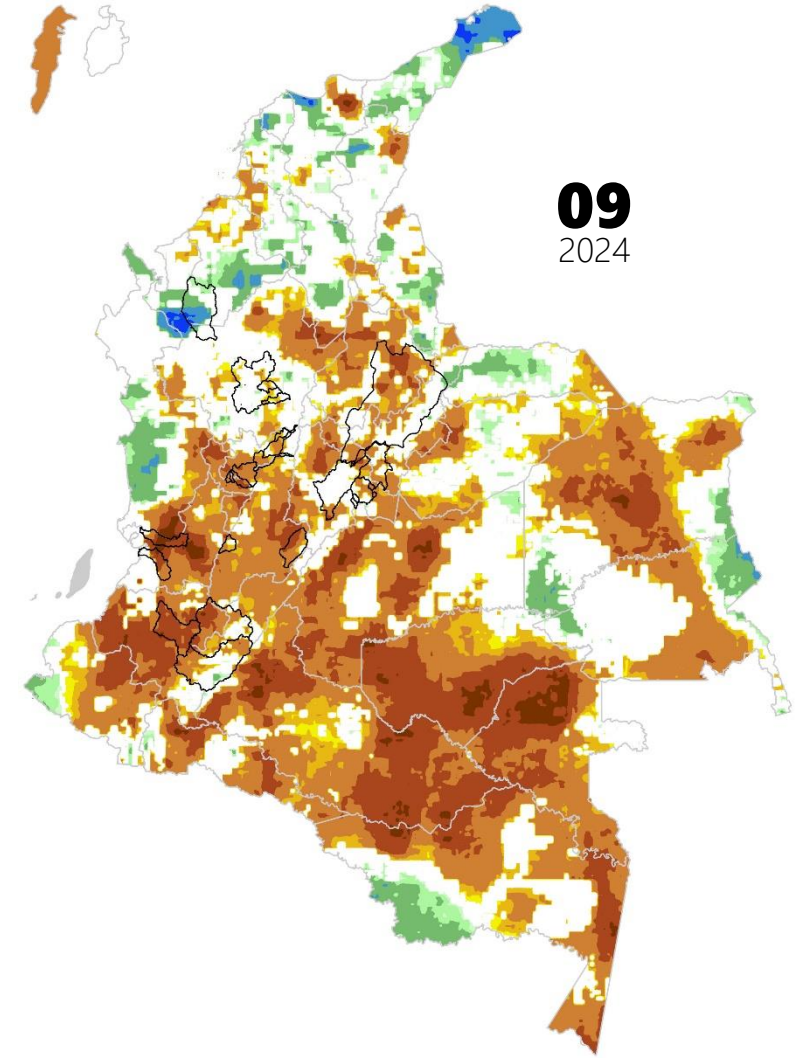
Probabilidad que se presente las categorías: **por debajo**, normal, **por encima**



07
2024



08
2024



09
2024



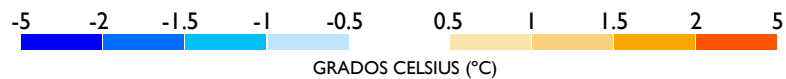
Predicción Temperaturas Extremas

Mínima

Máxima

JUL
2024

JUL
2024





ANÁLOGOS

		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	TT
1957	F																																					16
1965	F																																					12
1972	F																																					11
1982	F																																					15
1986	F																																					18
1991	F																																					14
1997	F																																					13
2009	F																																					9
2014	F																																					19
2023	F																																					12

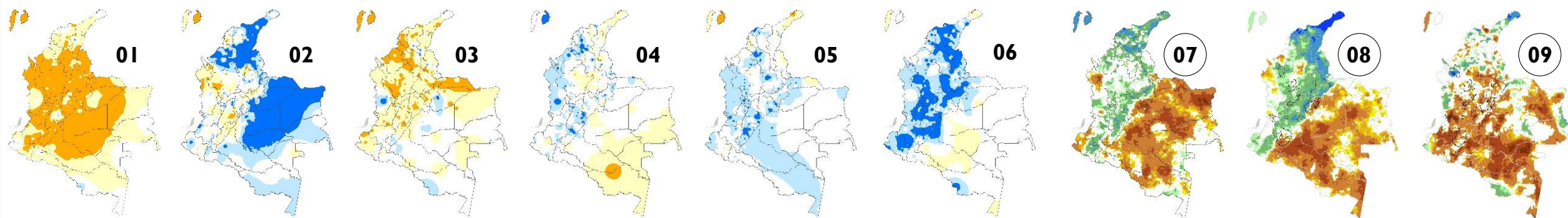
ONlv5



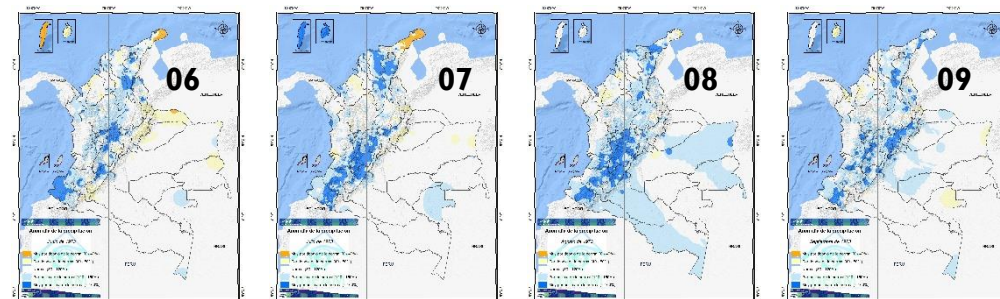
OBSERVADO

PREDICCIÓN

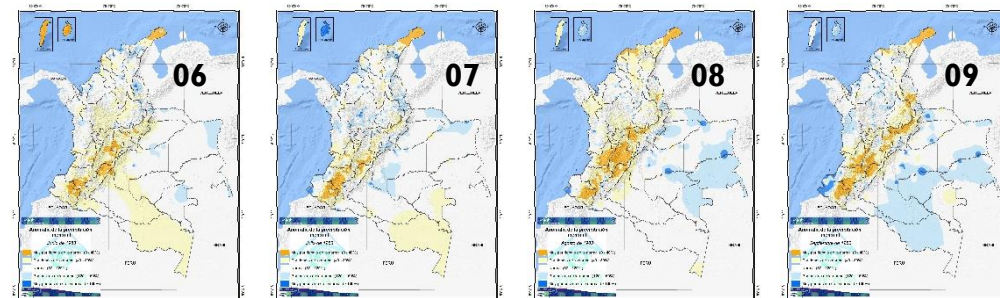
2023



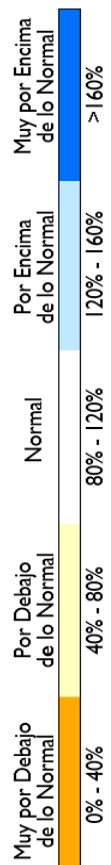
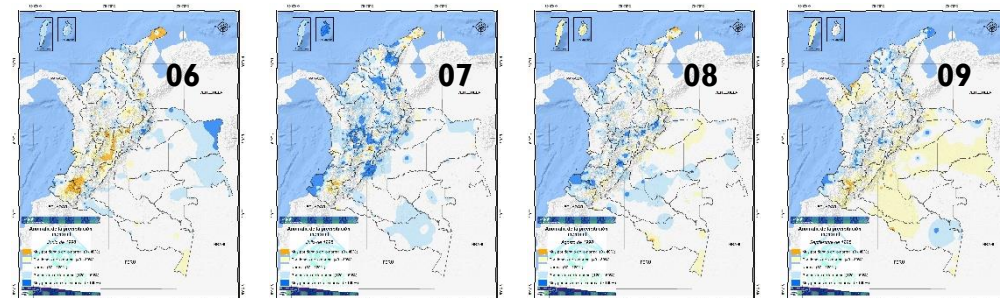
1973



1983



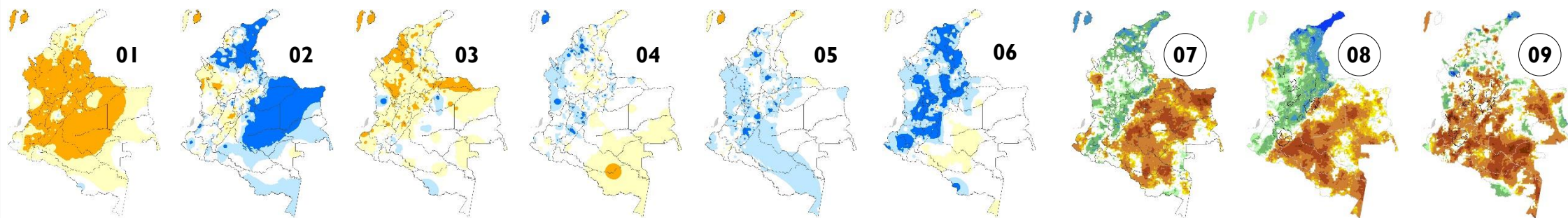
1998



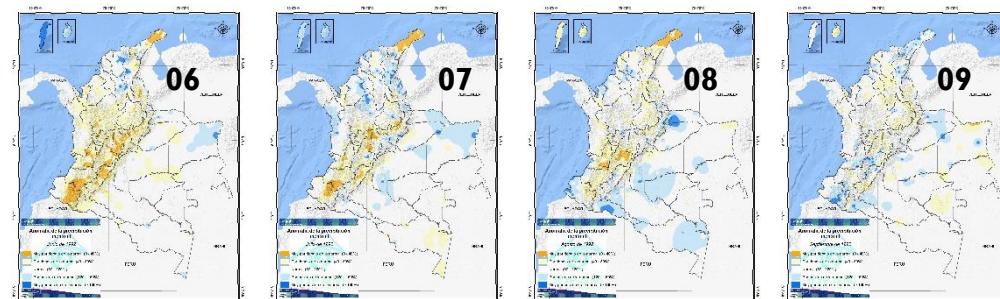
OBSERVADO

PREDICCIÓN

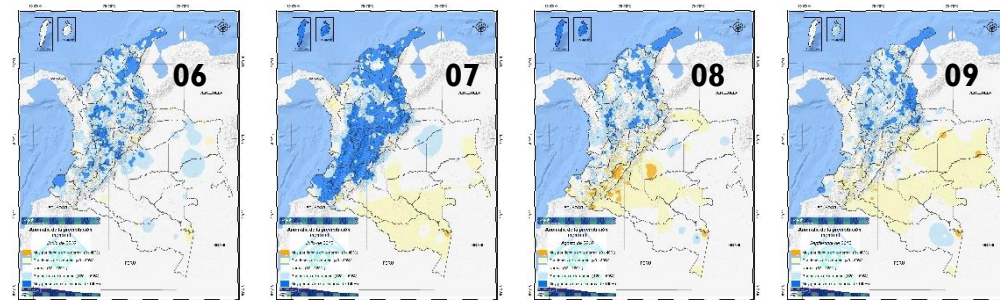
2023



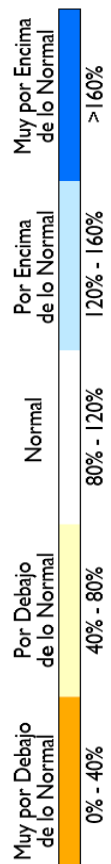
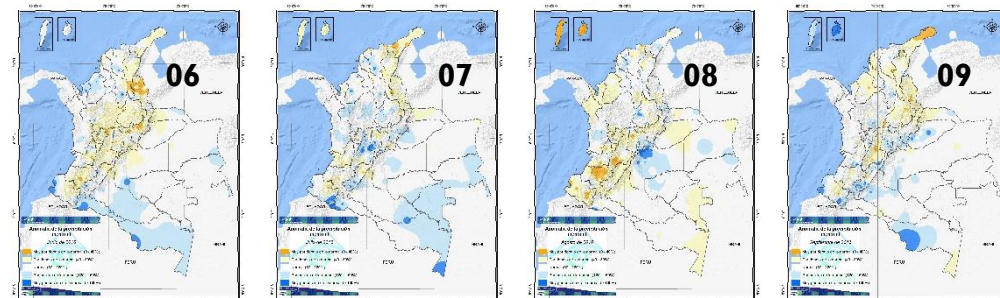
1992



2010



2016

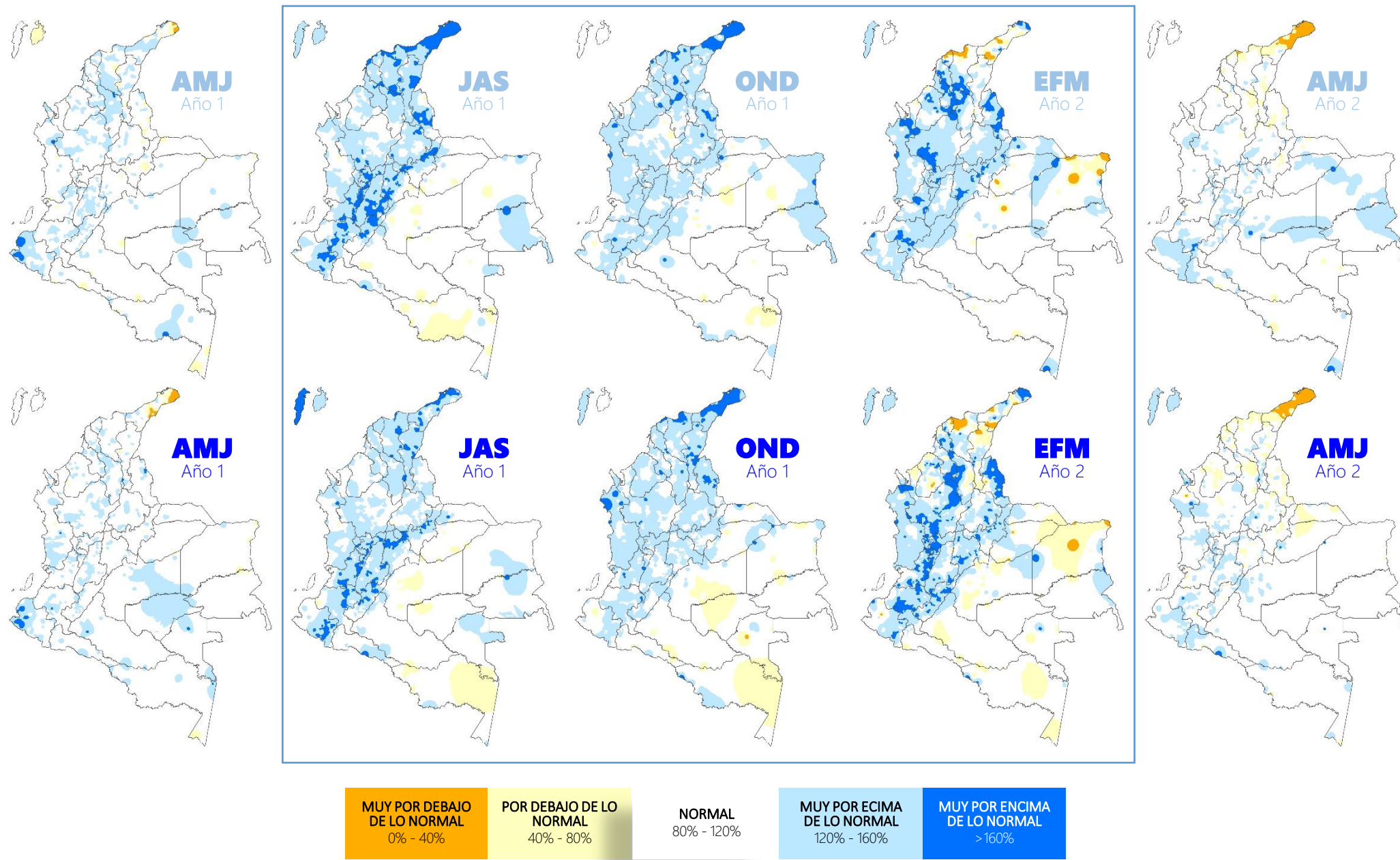




ALTERACIONES MÁS PROBABLES

EL NIÑO | LA NIÑA

Alteraciones más probables en la precipitación ante la ocurrencia de un fenómeno La Niña típica y moderada





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